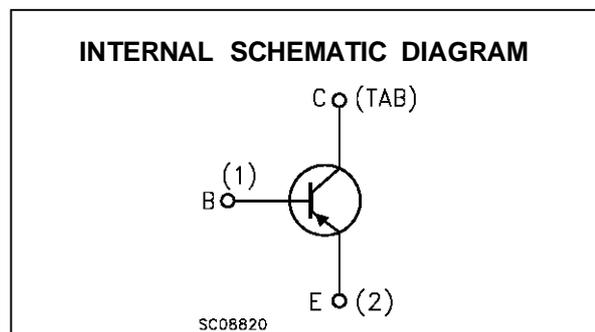
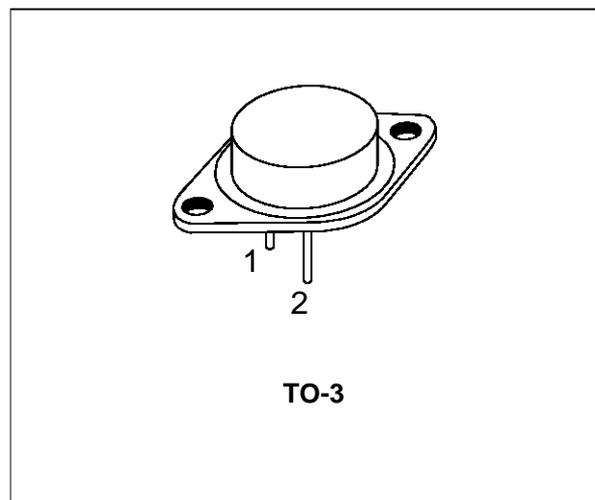


SILICON PNPSWITCHING TRANSISTOR

■ SGS-THOMSON PREFERRED SALESTYPE

DESCRIPTION

The MJ2955 is a silicon epitaxial-base planar PNP transistors in TO-3 metal case, intended for power switching circuits, series and shunt regulators, output stages and hi-fi amplifiers.



ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage ($I_E = 0$)	- 100	V
V_{CER}	Collector-Emitter Voltage ($R_{BE} \leq 100\Omega$)	- 70	V
V_{CEO}	Collector-emitter Voltage ($I_B = 0$)	- 60	V
V_{EBO}	Emitter-base Voltage ($I_C = 0$)	- 7	V
I_C	Collector Current	- 15	A
I_B	Base Current	- 7	A
P_{tot}	Total Dissipation at $T_c \leq 25^\circ C$	150	W
T_{stg}	Storage Temperature	-65 to 200	$^\circ C$
T_j	Max. Operating Junction Temperature	200	$^\circ C$

THERMAL DATA

R _{thj-case}	Thermal Resistance Junction-case	Max	1.17	°C/W
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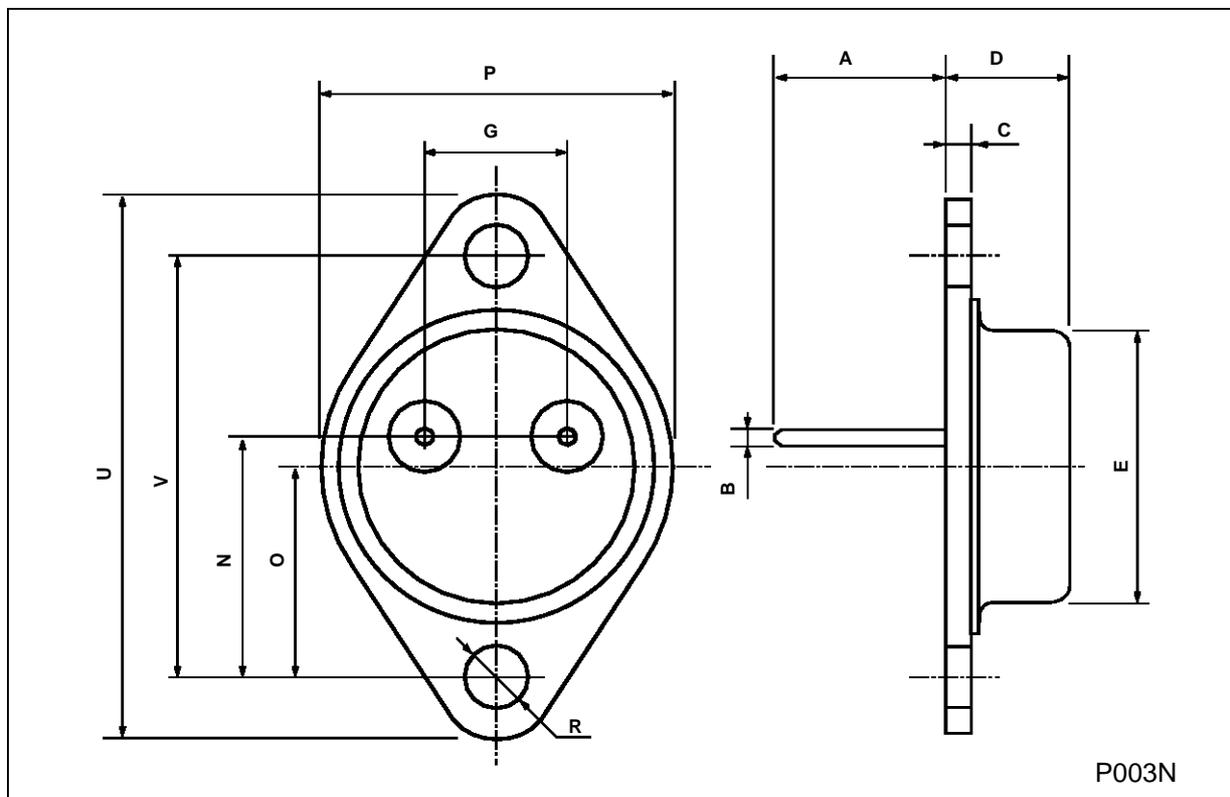
ELECTRICAL CHARACTERISTICS (T_{case} = 25 °C unless otherwise specified)

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
I _{CEx}	Collector Cut-off Current (V _{BE} = 1.5V)	V _{CB} = -100 V V _{CB} = -100 V T _{case} = 150 °C			- 1 - 5	mA mA
I _{CEO}	Collector Cut-off Current (I _B = 0)	V _{CE} = - 30 V			- 0.7	mA
I _{EBO}	Emitter Cut-off Current (I _C = 0)	V _{EB} = - 7 V			- 5	mA
V _{CER(sus)*}	Collector-emitter Sustaining Voltage (R _{BE} = 100 Ω)	I _C = - 200 mA	- 70			V
V _{CEO(sus)*}	Collector-Emitter Sustaining Voltage (I _B = 0)	I _C = - 200 mA	- 60			V
V _{CE(sat)*}	Collector-emitter Saturation Voltage	I _C = - 4 A I _B = - 0.4 A I _C = - 10 A I _B = - 3.3 A			-1 -3	V V
V _{BE*}	Base-emitter Voltage	I _C = - 4 A V _{CE} = - 4 A			- 1.8	V
h _{FE*}	DC Current Gain	I _C = - 4 A V _{CE} = - 4 V I _C = - 10 A V _{CE} = - 4 V	20 5		70	
f _T	Transition-Frequency	I _C = - 0.5 A V _{CE} = 5 V	4			MHz

* Pulsed: Pulse duration = 300 μs, duty cycle 1.5 %

TO-3 (H) MECHANICAL DATA

DIM.	mm			inch		
	MIN.	TYP.	MAX.	MIN.	TYP.	MAX.
A		11.7			0.460	
B	0.96		1.10	0.037		0.043
C			1.70			0.066
D			8.7			0.342
E			20.0			0.787
G		10.9			0.429	
N		16.9			0.665	
P			26.2			1.031
R	3.88		4.09	0.152		0.161
U			39.50			1.555
V		30.10			1.185	



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